

61-225

APPROVAL SHEET

CUSTOMER : 訊舟科技股份有限公司

MODEL NO. : IW-241RS-325

DESCRIPTION : 2.4GHz Swivel Antenna

Customer Approval

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士誼科技事業股份有限公司
JOYMAX ELECTRONICS CO., LTD.

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· Electrical test	3-1~3-3
4. Connector	
· SMA Plug	4-1



1. Description:

The antenna is a swivel and $1/4 \lambda$ dipole antenna. It's useful for the ISM Band of 2.4~2.5 GHz.

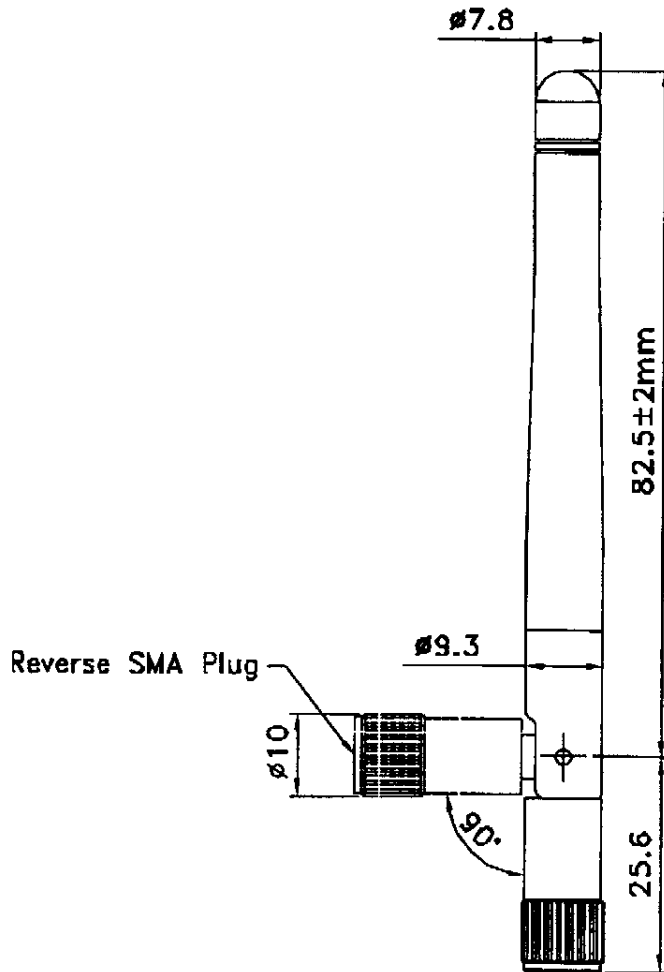
2. Electrical Properties

2-1 Frequency Range.....	2.4~2.4835GHz
2-2 Impedance.....	50 Ohms nominal
2-3 S.W.R.	≤ 2.0
2-4 Return Loss.....	≤ -10 dB
2-5 Gain.....	2 dBi
2-6 Polarization.....	Vertical
2-7 Admitted Power.....	1W
2-8 Electrical Wave.....	$1/4 \lambda$ Dipole

3. Mechanical Properties :

3-1 Connector.....	Reverse SMA Plug
3-2 Antenna Cover.....	Polyurethane
Antenna Base.....	Polycarbonate
3-3 Rotating Test.....	≤ 0.5 Kg-cm, After 2000 cycles with the rate of 30 cycles/minute (max.). It shall be possible to remain it's position.

工程 / 部品圖



TOLERANCES:	
X	± 1
X.X	± 0.5
X.XX	± 0.25
ANG.	± 2.0°

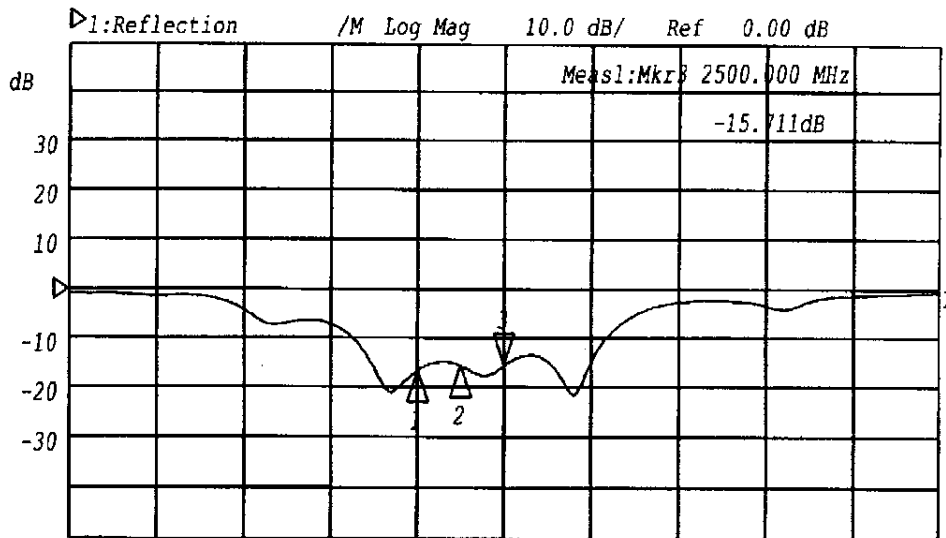
REV DESCRIPTION	MATERIAL	MODEL: IW-241RS-325		
	FINISH	NAME: Swivel Antenna		
	UNIT: mm	PART No: IW-241RS-325		
	SCALE: 1/ 0.8	DESIGN	APPROVE	REV
	DATE: 6/19/2003	Ar. na		00

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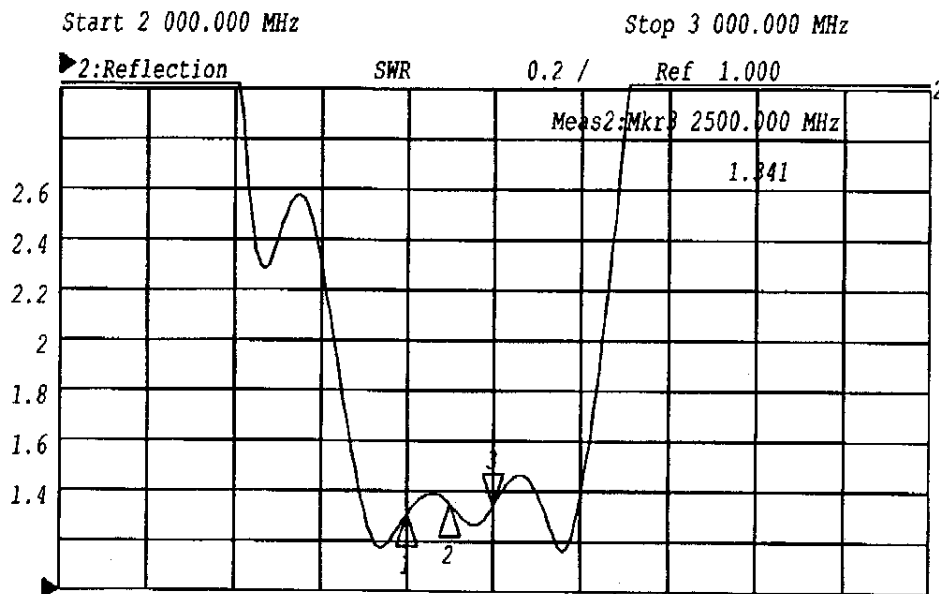


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Return Loss



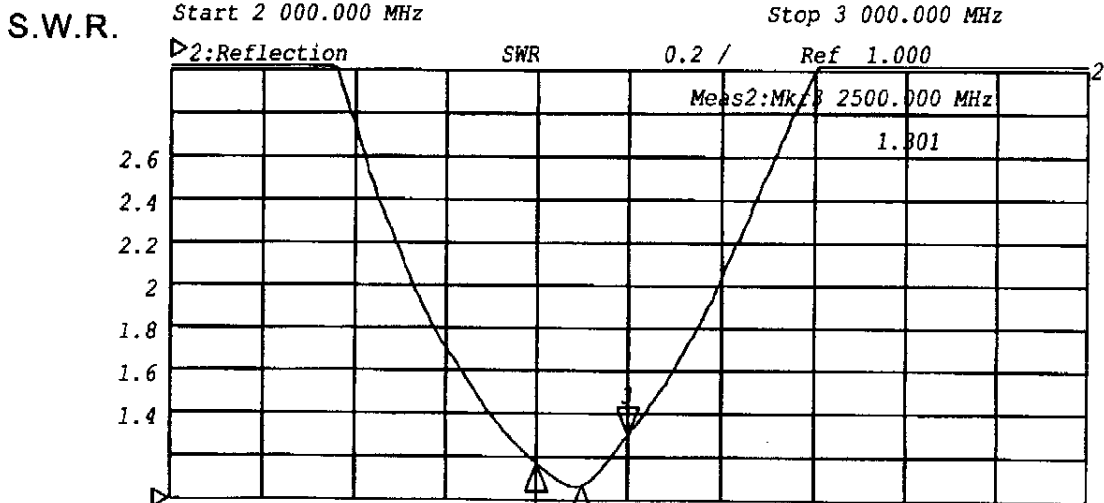
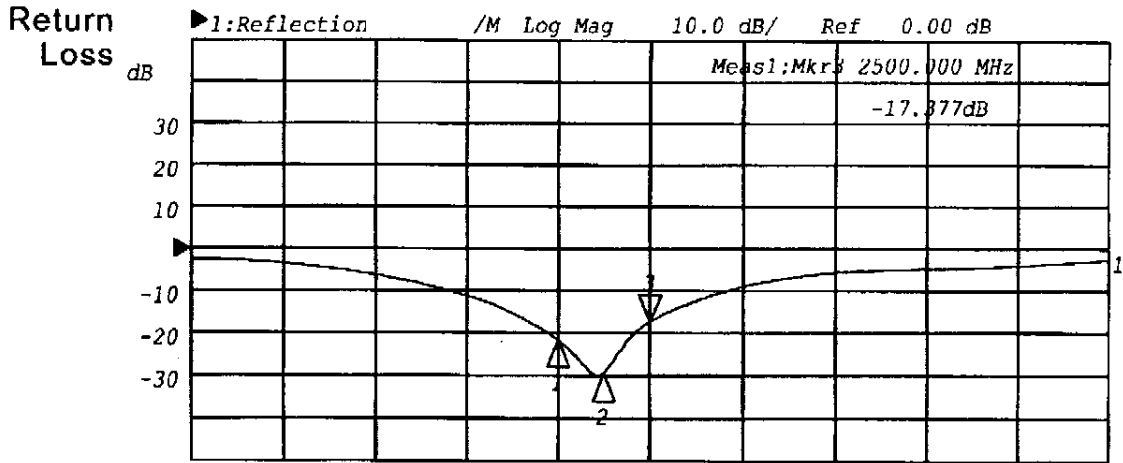
S.W.R.



Start 2 000.000 MHz Stop 3 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	SWR
1: 2400.0000	-16.684	1: 2400.0000	1.306
2: 2450.0000	-15.659	2: 2450.0000	1.349
3> 2500.0000	-15.711	3> 2500.0000	1.341

配PCB(94V-0)+Cable(CX-8022-325)測試

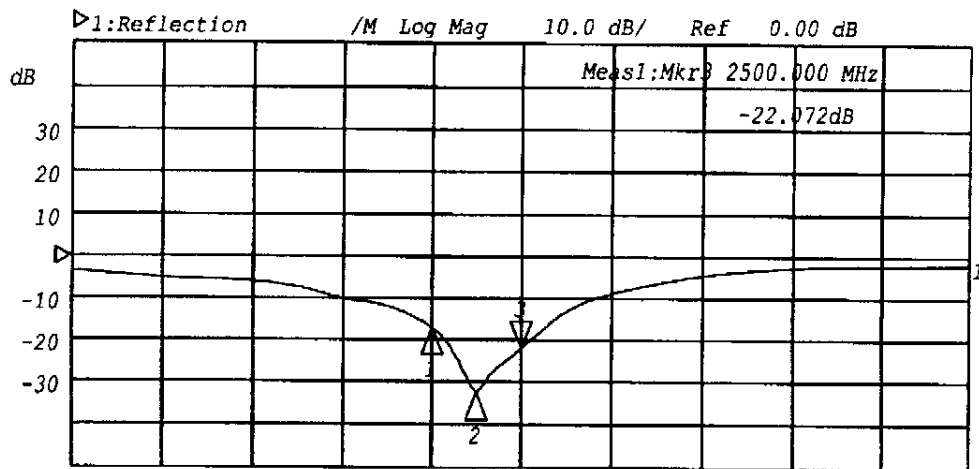


Start 2 000.000 MHz Stop 3 000.000 MHz

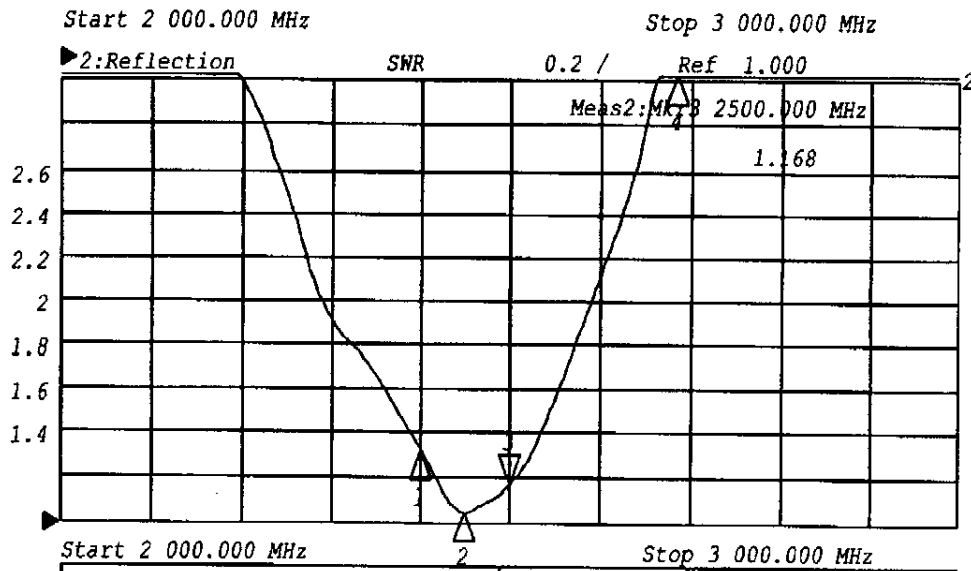
1:Mkr (MHz)	dB	2:Mkr (MHz)	
1: 2400.0000	-21.746	1: 2400.0000	1.172
2: 2450.0000	-29.482	2: 2450.0000	1.067
3> 2500.0000	-17.377	3> 2500.0000	1.301

配Cable(CX-8008-325)測試

Return Loss



S.W.R.



1:Mkr (MHz)	dB	2:Mkr (MHz)
1: 2400.0000	-16.985	1: 2400.0000
2: 2450.0000	-32.466	2: 2450.0000
3> 2500.0000	-22.072	3> 2500.0000
		4: 2684.3333

未配測試

1. Description:

The connector is a reverse SMA Plug join on the antenna.

2. Electrical Properties

2-1 Impedance.....	50 Ohms
2-2 Frequency Range.....	0~8 GHz
2-3 S.W.R.	1.1 (Max.)
2-4 Working Voltage.....	≤250 Vrms
2-5 Dielectric Withstanding Voltage.....	≤750 Vrms
2-6 Insulation Resistance.....	≥2000 Megohms
2-7 Contact Resistance.....	Center contact: 3.0 Milliohms (Max.) Outer contact: 2.5 Milliohms (Max.)
2-8 Insertion Loss.....	0.2 dB

3. Mechanical Properties :

3-1 Recommended coupling nut torque..	4.0 in.lbs.~8.8 in.lbs.
3-2 Coupling nut retention force.....	≥ 50 lbs.
3-3 Contact captivation axial.....	≥ 5 lbs.

4. Environmental Ratings

4-1 Operating Temperature.....	-65°C ~ +165°C
4-2 Thermal Shock.....	MIL-STD-202, Method 107, Condition B
4-3 Corrosion.....	MIL-STD-202, Method 101, Condition B
4-4 Shock.....	MIL-STD-202, Method 213, Condition I
4-5 Vibration.....	MIL-STD-202, Method 204, Condition D
4-6 Moisture Resistance.....	MIL-STD-202, Method 106

5. Material Specifications

5-1 Body.....	Brass Per JIS H3250 C3604 BD, Black chrome Plated
5-2 Contact.....	Beryllium Copper Per QQ-C-530, Gold Plated Per MIL-G-45204
5-3 Insulator.....	PTFE Fluorocarbon Per ASTM D 1710